

CLAIMS

What is claimed is:

1. A disk drive, comprising:
a functional unit including a disk serving as an information storage medium;
a case assembly holding the functional unit therein; and wherein
the case assembly is provided with a thick frame bumper serving as a shock-absorbing member, and a surface of the frame bumper protrudes from side surfaces of the disk drive beyond other members.
2. The disk drive of claim 1, wherein the case assembly includes a top cover covering an upper surface of the disk drive, and the surface of the frame bumper protrudes beyond a surface of the top cover on the upper surface of the disk drive.
3. The disk drive of claim 1, wherein the frame bumper of the case assembly has a guide function of detachably mounting the disk drive on an object.
4. The disk drive of claim 3, further comprising a connector inserted in a slot formed in the object when the disk drive is mounted on the object; and wherein
the connector serves as part of the guide function.
5. The disk drive of claim 1, wherein a thickness of the case assembly in a direction of a thickness of the frame bumper is dependent on a nut.
6. The disk drive of claim 1, wherein the frame bumper is formed from an elastomer.

7. A storage medium having an assembly structure capable of being detachably loaded into an object, comprising:
- a connector for insertion in a slot formed in the object;
 - an elastic member forming an external shape not departing from a form factor that is required in mounting the storage medium to the object; and wherein
 - positions of two-dimensional side surfaces of an external shape is dependent on the connector and the elastic member.
8. The storage medium of claim 7, wherein the connector is provided with an integral guide structure that is mounted on the object.
9. The storage medium of claim 7, wherein the elastic member is provided with a guide structure that is guided by and mounted on the object.
10. The storage medium of claim 7, wherein the elastic member has parts protruding from all of the two-dimensional side surfaces beyond other members.
11. The storage medium of claim 7, wherein the elastic member is disposed in a middle part of the assembly structure.
12. The storage medium of claim 7, further comprising:
- a nut inserted through the elastic member in a direction of a thickness of the assembly structure;
 - a screw for fastening the nut; and wherein
 - a form factor in the direction of the thickness is determined by fastening the nut by the screw.

13. A portable precision device including an assembly structure and capable of being detachably mounted on an object, the portable precision device comprising:

a functional unit;

a base plate for holding the functional unit;

a shock-absorbing member formed separate from the base plate and disposed in a middle part of the assembly structure; and wherein

lateral shocks acting on the portable precision device are absorbed by the shock-absorbing member.

14. The portable precision device of claim 13, wherein the base plate is formed by press work.

15. The portable precision device of claim 13, wherein the shock-absorbing member is formed of resins by two-color molding.

16. The portable precision device of claim 13, wherein the shock-absorbing member has a protruding part protruding in a direction of a side surface of the portable precision device, and a guide rail is formed to guide the portable precision device in mounting and removing the portable precision device on and from the object.

17. The portable precision device of claim 13, further comprising a card assembly provided with a connector for insertion in a slot formed in the object; and wherein

the connector serves as part of a guide rail for guiding the portable precision device in mounting the portable precision device on the object.

18. The portable precision device of claim 13, further comprising a top cover for covering the functional unit after mounting the functional unit on the base plate; and wherein

the shock-absorbing member has a part protruding upward from an upper surface of the top cover covering the functional unit.

19. The portable precision device of claim 13, wherein the functional unit includes a magnetic disk supported for rotation, and an actuator assembly for reading data from the magnetic disk and writing data to the magnetic disk.